

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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Applicant's or agent's file reference  P36027WO/PWC	<b>FOR FURTHER ACTION</b>		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No.  PCT/GB2004/005443	International filing date (day/month/year)  22/12/2004	(Earliest) Priority Date (day/month/year)  23/12/2003	
Applicant  INNOMED LIMITED			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

COMPOSITIONS OF SEMI-INTERPENETRATING POLYMER NETWORK

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/GB2004/005443

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

Novel compositions consisting of semi-interpenetrating network of cross-linked water soluble derivatives of basic polysaccharides and a non-cross-linked component, which is an anionic polysaccharide are provided. Methods for the production of such compositions are also disclosed. Preferably the basic polysaccharide is chitosan or a derivative thereof and the anionic polysaccharide is hyaluronic acid. The compositions can be formed into gels or films, for example, and thus find use in a wide range of medical applications in the fields of dermatology, plastic surgery, urology and orthopaedics.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/005443

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C08L5/08 A61L27/26

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C08L A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 658 915 A (ABE ET AL) 19 August 1997 (1997-08-19) column 1, line 66 - column 2, line 4 column 2, lines 8-11 column 3, line 33 column 7, line 54 - column 8, line 15 column 3, lines 34,35 column 4, line 3 column 8, lines 49-67 column 4, lines 58-65 *Preparation Examples 12-17*	1-14
Y	US 5 496 933 A (KELKENBERG ET AL) 5 March 1996 (1996-03-05) column 2, lines 16-27 column 3, lines 48-57 column 4, lines 18-27 examples 22-27 ----- -/-	1-14

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

23 March 2005

Date of mailing of the international search report

05/04/2005

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/005443

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>US 6 224 893 B1 (LANGER ROBERT S ET AL)  1 May 2001 (2001-05-01)  cited in the application  column 1, lines 14-18  column 3, lines 44-51  column 4, line 2  column 6, lines 46-54  column 9, lines 50-65  column 10, lines 8-20</p>	1-14

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/GB2004/005443

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5658915	A	19-08-1997	JP 5117106 A	14-05-1993
			JP 5117111 A	14-05-1993
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			AU 655445 B2	22-12-1994
			AU 8931991 A	25-06-1992
			CA 2074509 A1	30-05-1992
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			CA 2290743 A1	26-11-1998
			EP 1011633 A1	28-06-2000
			JP 2002503230 T	29-01-2002
			NZ 501339 A	01-02-2002
			WO 9852543 A1	26-11-1998

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